

## CLAIMS

What is claimed is:

*Sub A1*

1. A system, comprising:
  - 2 a first portable thread environment (PTE), comprising a diagnostic tool;
  - 3 a second PTE configured to receive and send threads;
  - 4 a third PTE configured to receive and send the threads; and
  - 5 a PTE router configured to receive the threads and route said threads, wherein the
  - 6 router copies the threads and routes the copies to the diagnostic tool.

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- 1 2. The system of claim 1, wherein the diagnostic tool uses the copies to generate
- 2 diagnostic messages.

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- 1 3. The system of claim 2, wherein the diagnostic messages show the threads'
- 2 execution order.

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- 1 4. The system of claim 2, wherein the diagnostic messages show all messages
- 2 generated by the threads.

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- 1 5. The system of claim 2, wherein the diagnostic messages show all messages
- 2 generated for the threads.

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- 1 6. The system of claim 2, wherein the diagnostic messages trigger new events to
- 2 be performed.

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- 1 7. The system of claim 2, wherein the diagnostic tool identifies the threads
- 2 source.

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1           8. The system of claim 2, wherein the diagnostic tool truncates threads  
2 exceeding a predetermined size.

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2           9. A method, comprising:  
3           intercepting threads passed from a first PTE to a second PTE;  
4           copying the threads;  
5           generating a diagnostic message by a PTE Tool; and  
6           displaying the diagnostic message, wherein the diagnostic message shows the  
threads' execution order.

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2           10. The method as in claim 9, wherein the diagnostic message shows all  
messages generated by the threads.

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2           11. The method as in claim 9, wherein the diagnostic message shows all  
messages generated for the threads.

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2           12. The method as in claim 9, wherein the diagnostic message triggers new  
events to be performed.

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2           13. The method as in claim 9, wherein the diagnostic tool identifies the threads'  
sources.

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2           14. The method as in claim 9, wherein the diagnostic tool truncates the threads  
exceeding a predetermined size.

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2           15. A system, comprising:  
means for intercepting threads passed from a first PTE to a second PTE;

3 means for copying the threads;  
4 means for generating a diagnostic message by a PTE Tool; and  
5 means for displaying the diagnostic message, wherein the diagnostic message  
6 shows the threads' execution order.

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1 16. The system of claim 15, wherein the diagnostic message shows all messages  
2 generated by the threads.

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1 17. The system of claim 15, wherein the diagnostic message shows all messages  
2 generated for the threads.

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1 18. The system of claim 15, wherein the diagnostic message triggers new events  
2 to be performed.

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1 19. The system of claim 15, wherein the diagnostic tool identifies the threads'  
2 sources.

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1 20. The system of claim 15, wherein the diagnostic tool truncates the threads  
2 exceeding a predetermined size.

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1 21. A computer-readable medium having stored thereon a plurality of  
2 instructions, said plurality of instructions when executed by a computer, cause said  
3 computer to perform:  
4 intercepting threads passed from a first PTE to a second PTE;  
5 copying the threads;  
6 generating a diagnostic message by a PTE Tool; and

7           displaying the diagnostic message, wherein the diagnostic message shows the  
8 threads' execution order.

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1       22. The computer-readable medium of claim 21, wherein the diagnostic message  
2 shows all messages generated by the threads.

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1       23. The computer-readable medium of claim 21, wherein the diagnostic message  
2 shows all messages generated for the threads.

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1       24. The computer-readable medium of claim 21, wherein the diagnostic message  
2 triggers new events to be performed.

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1       25. The computer-readable medium of claim 21, wherein the diagnostic tool  
2 identifies the threads' sources.

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1       26. The computer-readable medium of claim 21, wherein the diagnostic tool  
2 truncates the threads exceeding a predetermined size.